(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 19 May 2005 (19.05.2005)

PCT

(10) International Publication Number WO 2005/044855 A2

(51) International Patent Classification⁷:

C07K 16/00

(21) International Application Number:

PCT/US2004/037281

(22) International Filing Date:

4 November 2004 (04.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/517,337	4 November 2003 (04.11.2003)	US
60/525,579	26 November 2003 (26.11.2003)	US
60/565,709	26 April 2004 (26.04.2004)	US
60/565,710	27 April 2004 (27.04.2004)	US

- (71) Applicant (for all designated States except US): CHI-RON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): LONG, Li [CA/US]; Chiron Corporation, P.O. Box 8097, Emeryville, CA 94662-8097 (US). LUQMAN, Mohammad [US/US]; Chiron Corporation, P.O. Box 8097, Emeryville, CA 94662-8097 (US). YABANNAVAR, Asha [US/US]; Chiron Corporation, P.O. Box 8097, Emeryville, CA 94662-8097 (US). ZAROR, Isabel [US/US]; Chiron Corporation, P.O. Box 8097, Emeryville, CA 94662-8097 (US).

- (74) Agents: ALEXANDER, Lisa, E. et al.; Chiron Corporation, Intellectual Property Dept., P.O. Box 8097, Emeryville, CA 94662-8097 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF ANTAGONIST ANTI-CD40 MONOCLONAL ANTIBODIES FOR TREATMENT OF MULTIPLE MYELOMA

(57) Abstract: Methods of therapy for treating a subject for multiple myeloma are provided. The methods comprise administering a therapeutically effective amount of an antagonist anti-CD40 antibody or antigen-binding fragment thereof to a patient in need thereof. The antagonist anti-CD40 antibody or antigen-binding fragment thereof is free of significant agonist activity, but exhibits antagonist activity when the antibody binds a CD40 antigen on a human CD40-expressing cell. Antagonist activity of the antiantibody or antigen-binding fragment thereof beneficially inhibits proliferation and/or differentiation of human CD40expressing multiple myeloma cells.

